

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P232743

Luminaire Tested: **CST-6-3-D-U-T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-171-21)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-6-3-D-U-T5
Description: CELESTEON HIGH MAST LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE V OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31787 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G5

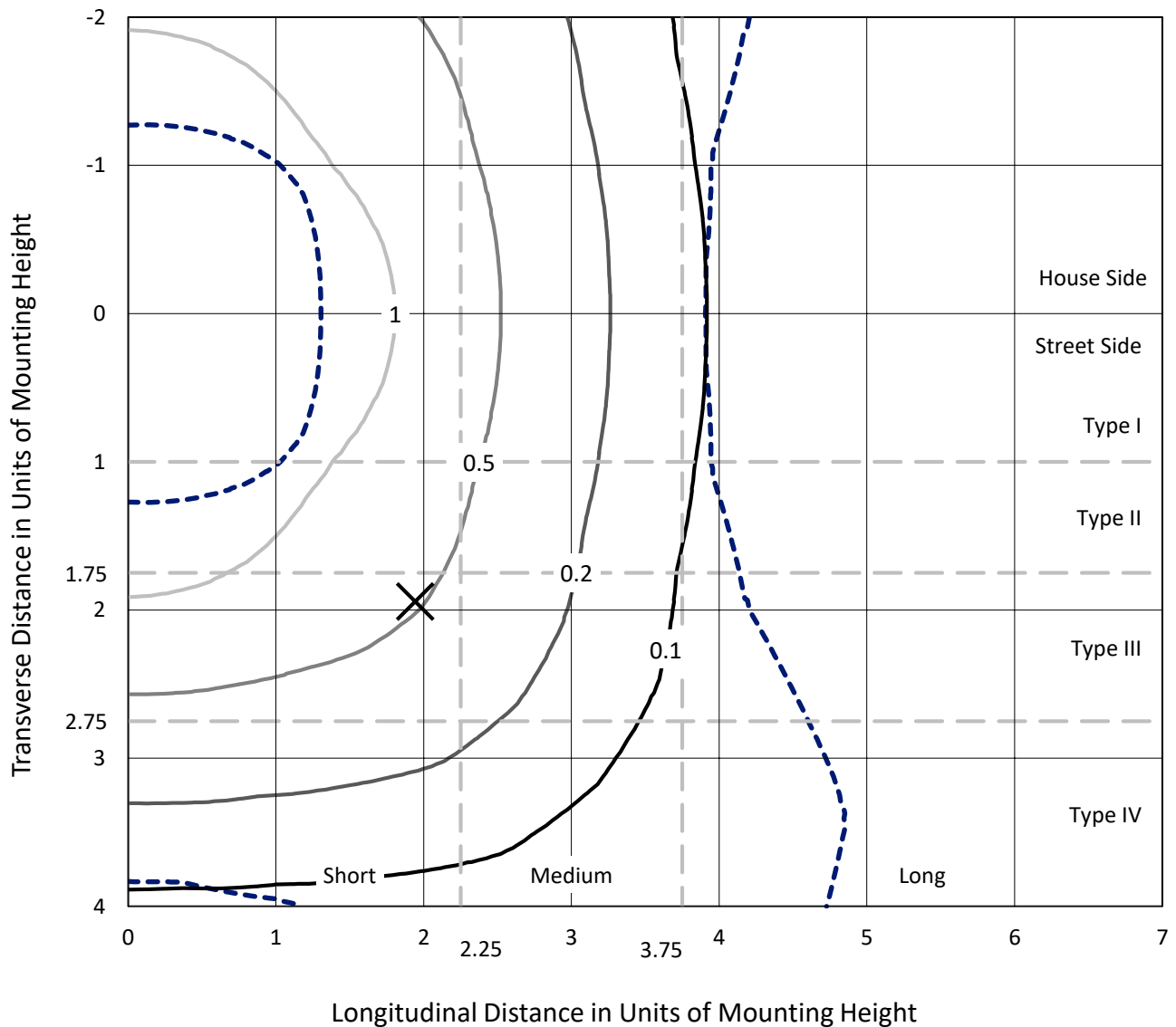
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

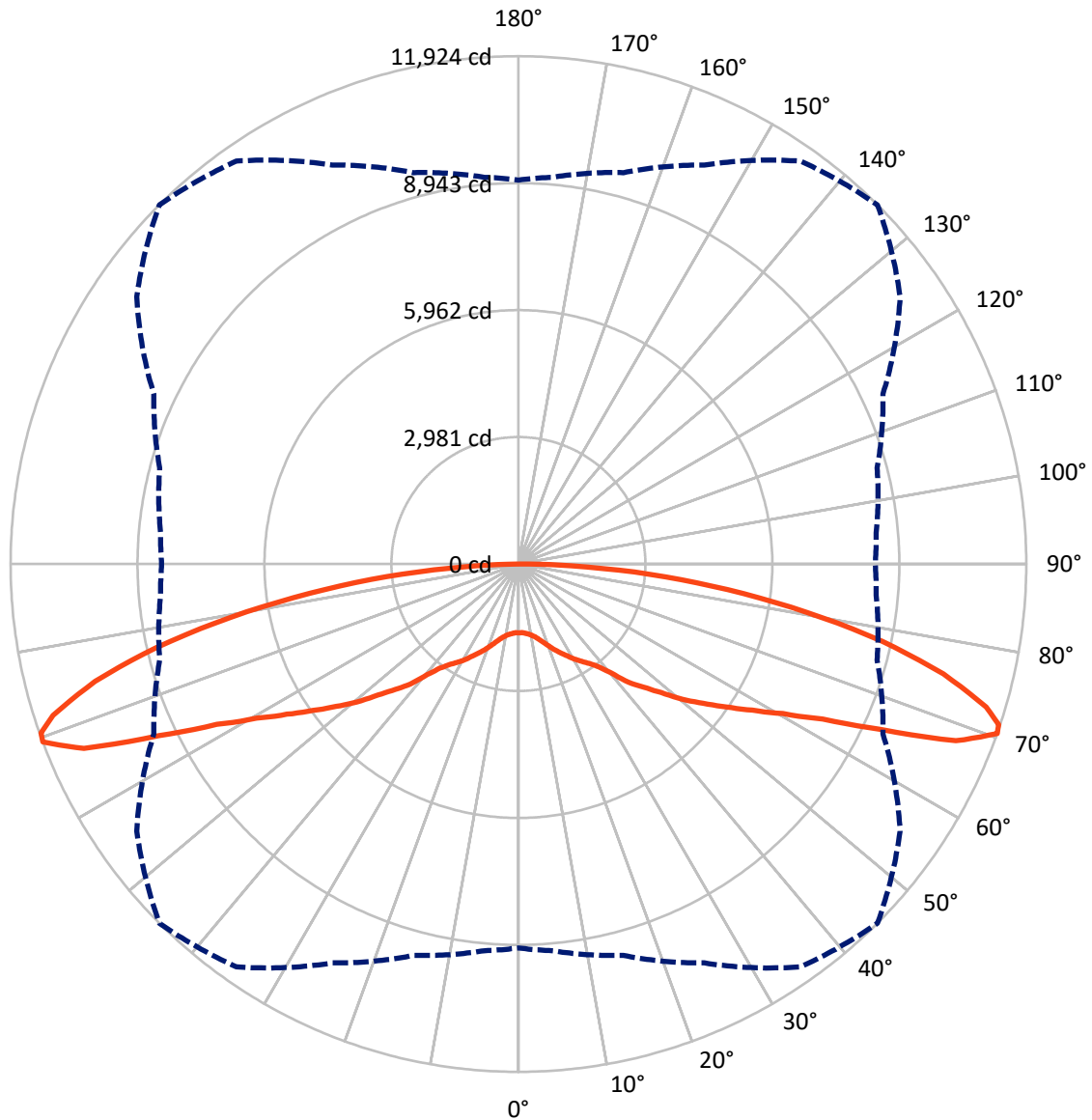
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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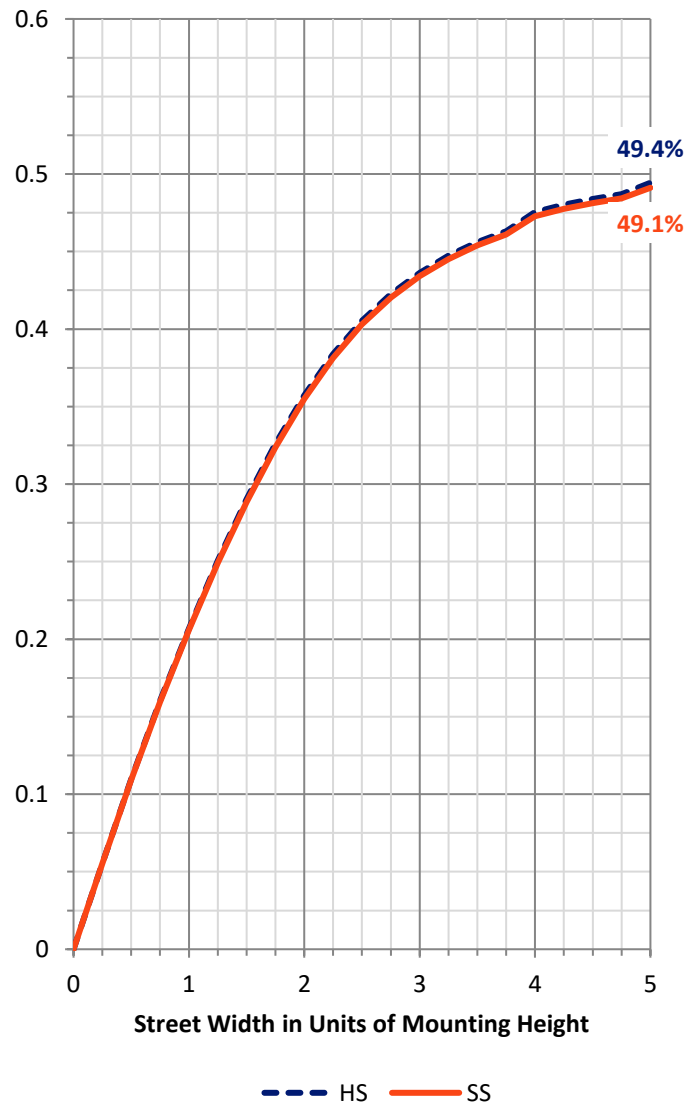
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15893.5	0.0	15893.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15893.5	0.0	15893.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31787.0	0.0	31787.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	0.5
10°-20°	527.1	1.7
20°-30°	1053.3	3.3
30°-40°	1811.3	5.7
40°-50°	3350.9	10.5
50°-60°	5695.5	17.9
60°-70°	9180.5	28.9
70°-80°	8114.0	25.5
80°-90°	1895.9	6.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	31787.0	100.0
0°-180°	31787.0	100.0



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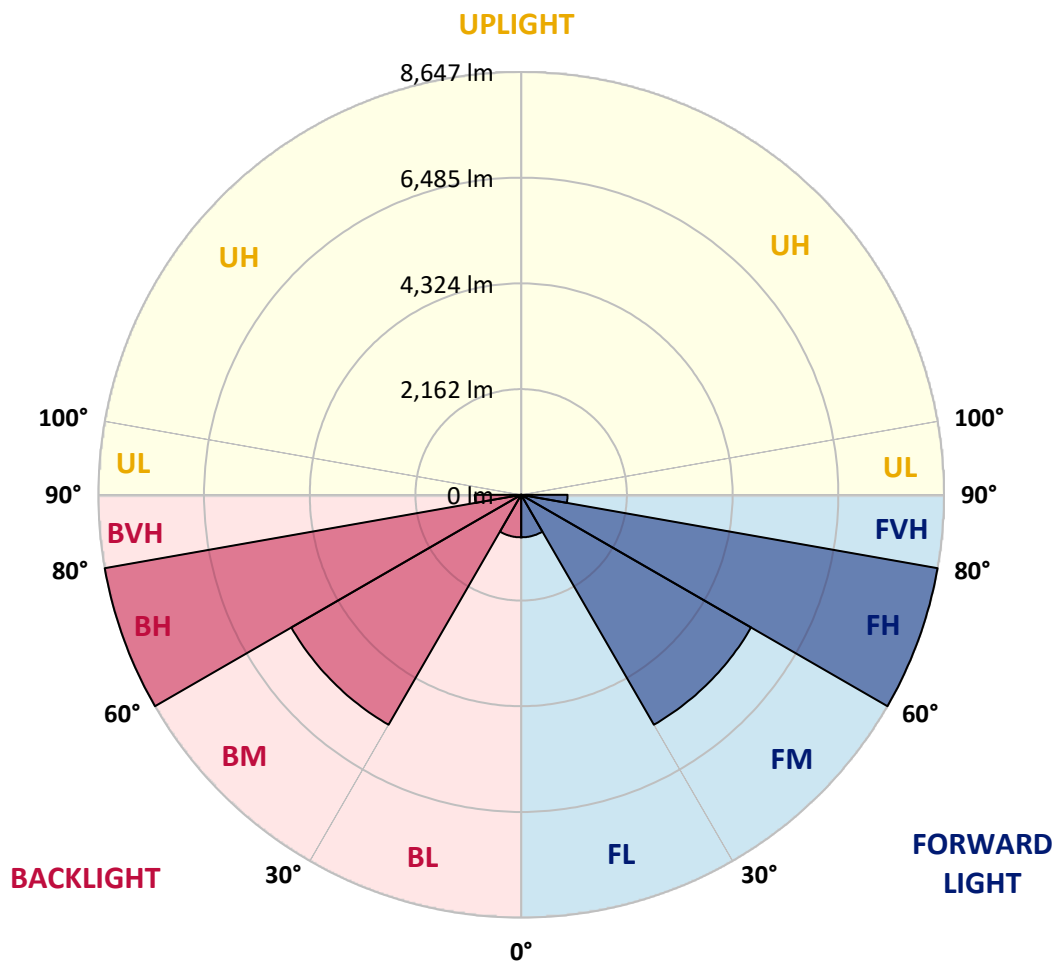
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.4	2.7			
FM	(30°-60°)	5428.9	17.1			
FH	(60°-80°)	8647.3	27.2			G4/12000
FVH	(80°-90°)	948.0	3.0			G5
BL	(0°-30°)	869.4	2.7	B2/1000		
BM	(30°-60°)	5428.9	17.1	B4/8500		
BH	(60°-80°)	8647.3	27.2	B5		G4/12000
BVH	(80°-90°)	948.0	3.0			G5
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0	1615.0
2.5°	1629.0	1626.0	1627.0	1627.0	1609.0	1613.0	1614.0	1625.0	1625.0	1630.0	1631.0
5°	1645.0	1640.0	1641.0	1645.0	1628.0	1631.0	1631.0	1642.0	1640.0	1646.0	1649.0
7.5°	1673.0	1669.0	1669.0	1673.0	1653.0	1658.0	1655.0	1665.0	1661.0	1664.0	1670.0
10°	1718.0	1717.0	1714.0	1716.0	1694.0	1697.0	1691.0	1702.0	1694.0	1695.0	1706.0
12.5°	1770.0	1769.0	1769.0	1772.0	1753.0	1758.0	1748.0	1752.0	1738.0	1740.0	1749.0
15°	1834.0	1836.0	1838.0	1847.0	1835.0	1840.0	1825.0	1823.0	1807.0	1807.0	1818.0
17.5°	1922.0	1922.0	1923.0	1943.0	1936.0	1944.0	1923.0	1909.0	1893.0	1895.0	1897.0
20°	2032.0	2028.0	2030.0	2054.0	2056.0	2062.0	2029.0	2010.0	1993.0	1994.0	1992.0
22.5°	2149.0	2141.0	2140.0	2173.0	2187.0	2189.0	2143.0	2125.0	2103.0	2106.0	2104.0
25°	2261.0	2253.0	2249.0	2276.0	2313.0	2311.0	2261.0	2235.0	2225.0	2225.0	2227.0
27.5°	2372.0	2362.0	2358.0	2374.0	2432.0	2442.0	2376.0	2353.0	2343.0	2352.0	2356.0
30°	2484.0	2476.0	2474.0	2479.0	2545.0	2589.0	2487.0	2477.0	2476.0	2484.0	2493.0
32.5°	2620.0	2619.0	2611.0	2610.0	2659.0	2723.0	2620.0	2626.0	2642.0	2660.0	2672.0
35°	2795.0	2793.0	2771.0	2781.0	2805.0	2865.0	2806.0	2810.0	2853.0	2880.0	2895.0
37.5°	3028.0	3013.0	2985.0	2986.0	2998.0	3059.0	3036.0	3067.0	3145.0	3195.0	3190.0
40°	3358.0	3334.0	3292.0	3280.0	3278.0	3365.0	3387.0	3457.0	3580.0	3654.0	3649.0
42.5°	3830.0	3805.0	3741.0	3724.0	3731.0	3799.0	3863.0	3974.1	4081.1	4167.1	4162.1
45°	4314.1	4282.1	4179.1	4121.1	4071.1	4123.1	4223.1	4397.1	4525.1	4638.1	4636.1
47.5°	4874.1	4824.1	4700.1	4589.1	4489.1	4508.1	4615.1	4814.1	4969.1	5082.1	5075.1
50°	5482.1	5432.1	5296.1	5129.1	4974.1	4987.1	5039.1	5249.1	5403.1	5513.1	5515.1
52.5°	6132.1	6096.1	5940.1	5719.1	5506.1	5433.1	5466.1	5660.1	5837.1	5941.1	5950.1
55°	6833.1	6798.1	6634.1	6379.1	6087.1	5923.1	5922.1	6117.1	6296.1	6387.1	6401.1
57.5°	7536.1	7517.1	7373.1	7095.1	6727.1	6476.1	6419.1	6622.1	6823.1	6917.1	6936.1
60°	8260.1	8234.1	8114.1	7881.1	7477.1	7133.1	7037.1	7240.1	7467.1	7564.1	7576.1
62.5°	9080.1	9054.1	8962.1	8716.1	8418.1	8020.1	7881.1	8068.1	8278.1	8433.1	8417.1
65°	9900.1	9894.1	9933.1	9822.1	9594.1	9366.1	9092.1	9297.1	9452.1	9437.1	9432.1
67.5°	9769.1	9807.1	10077.1	10462.1	10943.1	11079.1	10446.1	9872.1	9534.1	9338.1	9276.1
70°	9015.1	9113.1	9513.1	10334.1	11547.1	11924.2	10940.1	9444.1	8718.1	8432.1	8377.1
71°	8599.1	8676.1	9137.1	10140.1	11551.1	11891.2	10823.1	9122.1	8384.1	7992.1	7954.1
72.5°	7789.1	7908.1	8417.1	9609.1	11200.1	11486.1	10313.1	8522.1	7749.1	7367.1	7346.1
75°	6227.1	6263.1	6920.1	8274.1	10085.1	10312.1	9155.1	7395.1	6598.1	6337.1	6322.1
77.5°	4395.1	4396.1	5026.1	6450.1	8361.1	8729.1	7929.1	6097.1	5292.1	4964.1	4891.1
80°	2328.0	2423.0	3048.0	4433.1	6263.1	6869.1	6301.1	4610.1	3721.0	3242.0	3175.0
82.5°	1061.0	1129.0	1534.0	2513.0	4119.1	4947.1	4323.1	2993.0	1994.0	1477.0	1434.0
85°	412.0	422.0	633.0	1194.0	2303.0	3103.0	2517.0	1403.0	694.0	424.0	393.0
87.5°	135.0	144.0	206.0	460.0	980.0	1239.0	973.0	422.0	135.0	84.0	81.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)